

Tessellation 32 (J)

Suite: Tessellation Party!
by Arya Akhavan (December 2013)

Facet Data

Pavilion facets	20	Pavilion tiers	3
Girdle facets	12	Girdle tiers	2
Crown facets	16	Crown tiers	3
Total facets	48	Total tiers	8

Size Data

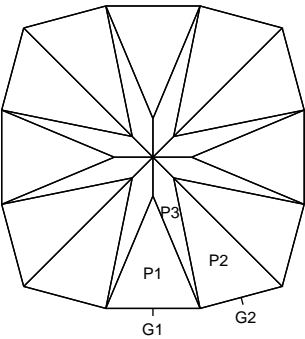
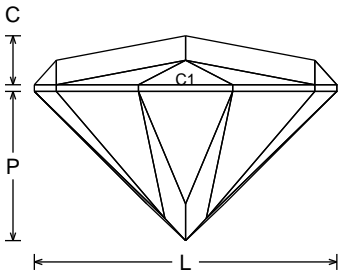
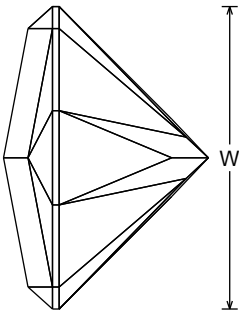
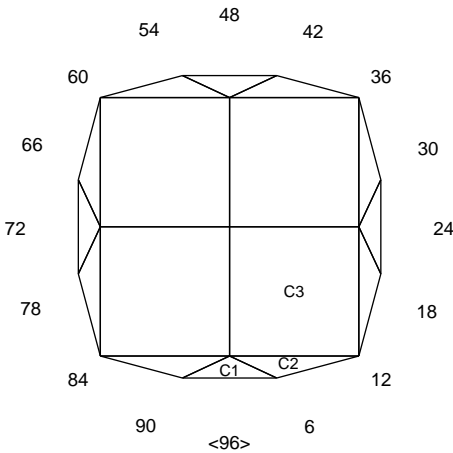
L/W	1.000	P/W	0.493
T/W	0.000	C/W	0.162
U/W	0.000	H/W	0.677
V/W^3	0.233	P/C	3.047

Design Data

Angles for R.I.	1.54
Symmetry	4-fold, mirror
Index gear	96

Comments

This comically simple design performs way better than you'd expect, given the fact that the crown is paper-thin and absurdly simple. It's a snap to cut, and should work incredibly well in a matched pair of earrings because of how nice the tilt performance is. And even better, works in materials from fluorite to rutile ($RI = 1.43 - 2.62$), the FULL range of all available RIs for any gem material.



Pavilion

P1	45.00	96-24-48-72	Cut to centerpoint.
P2	43.70	04-20-28-44-52-68-76-92	Meet at culet.
G1	90.00	96-24-48-72	Set stone size.
G2	90.00	04-20-28-44-52-68-76-92	Level girdle.
P3	43.71	02-22-26-46-50-70-74-94	Meet P1, P2, G1, G2

Crown

C1	48.06	96-24-48-72	Set girdle width.
C2	36.21	04-20-28-44-52-68-76-92	Level girdle.
C3	15.00	12-36-60-84	Meet G2, C2; C1, C2